5/196/62/000/003/010/912 E194/E155

AUTHOR:

Ivenskiy, Yu. N.

TITLE

The design of control circuits with contactless

elements

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika.

no.3, 1962, 1, abstract 3 K3. (Vestn.

elektroprom-sti, no.8, 1961, 41.44).

Relay-contact control circuits are reduced to a certain combination of nodes that fulfil the logical operations 'And', 'Or', 'Not, 'Prohibited', 'Memory' and Time delay'. Reliable contactless control systems of long life may be constructed on the basis of contactless stepwise switching elements having the above-mentioned logical relationships between the input and output signals. The special features of these control systems must be allowed for in designing them: switching is not ideal, i.e. there is interference; the elements have many inputs and one output; and it is necessary to amplify the output signal to work the operating devices. The construction of card 1/2

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The design of control circuits ... 5/196/62/000/003/010/012 E194/E155

optimum contactless control systems is facilitated by using the laws of mathematical logic. Examples are given of desirable conversion in the typical relay-contact nodes and in modes of contactless control systems. Two examples are given of construction of contactless control systems for machine tool drive.

6 figures.

[Abstractor's note: Complete translation.]

Card 2/2

IVENSKIY, Yu.N., inzh.; TULLER, A.G., inzh.

Electric equipment for production lines composed of machine-tool units. Mekh.i avtom.proizv. 15 no.10:39-45 0 '61.

(MIRA 14:10)

(Machine tools) (Electronic control)

IVENSKIY, Yu.N., inzh.; TULIER, A.G., inzh.

Control networks using weak-current devices. Vest. elektroprom.
(MIRA 15:5)

(Electric networks)

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s/876/62/000/000/002/007 E191/E481

AUTHOR:

Ivenskiy, Yu.N.

TITLE:

Problems in the design of control circuits and components for automated machining production lines

(Experience of SKB-8)

SOURCE:

Proyektirovaniye i ekspluatatsiya avtomaticheskikh liniy mekhanicheskoy obrabotki. Mosk. dom nauchnotekhn. prop. Ed. by A.P. Vladziyevskiy. Moscow,

Mashgiz, 1962. 68-87

Designs adopted as a result of experience with electrical control systems for automatic production lines are described and their reasons discussed. The primary criteria are the reliability components in low voltage systems are prefered to medium voltage The advantages of low voltage systems can only be retained by paying full attention to their special The power supply unit is a three-phase transformer with rectifiers in a bridge arrangement having a low ripple factor and ensuring that the effect of filtering and spark suppression circuits on the supply voltage fluctuations is small. Card 1/2

Problems in the design ...

S/876/62/000/000/002/007 E191/E481

Protective devices based on maximum current and thermal protection are discussed. Detailed examples are given of control circuits based on time delay elements embodying RC circuits. is the control of a turntable used in standard unit type and specialized machine tools. Another example is an automatic production line wherein the machine tools consist of several detachable units. In this control scheme, relays signalling the initial position are used. The coil circuit of such relays contains the series contacts of limit switches which detect the initial position of the elements. The central control panel of such a production line is illustrated. The presence or absence of a hole sometimes forms a necessary element of detection in the control system. In the case of small holes, such inspection is accomplished by establishing that the drill is unbroken after drilling. The inspection is performed by a special feeler. The use of semiconductor amplifiers is described. The control of time delays is performed by means of a transistorized time relay operated by contactless logical elements. Voltage and temperature fluctuations have only a small effect. Details of installation design are discussed. There are 12 figures. Card 2/2

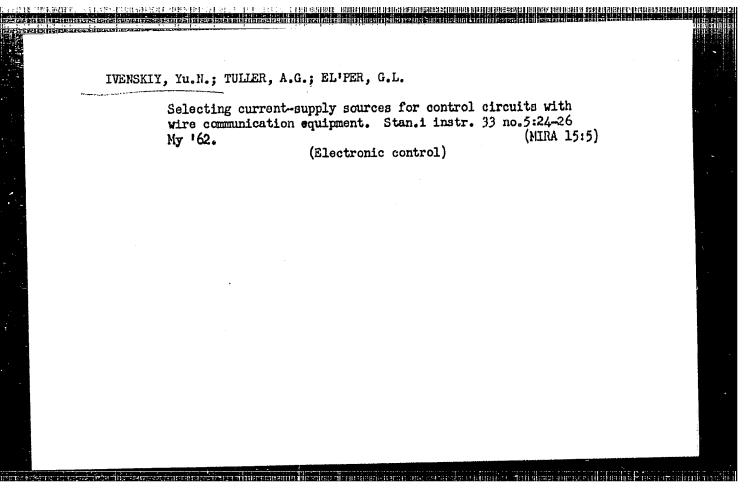
A STATE OF THE STA

IVENSKIY, Yu.N., inzh.; TULLER, A.G., inzh.; EL'PER, G.L., inzh.

Elements of computing circuits in the control of continuous lines.

Vest. elektroprom. 33 no.3:61-66 Mr '62. (NIRA 15:3)

(Automatic control)



IVENSKIY, Yu.N.; TULIER, A.G.; EL'FER, G.L.

Protection systems for control circuits and supply sources. Stan.i instr. 33 no.7:5-9 Jl '62. (MIRA 15:7) (Electric protection)

IVENSKIY, Yu.N., inzh. (Minsk); TULLER, A.G., inzh. (Minsk)

Electrical systems for the control of the continuous lines of machine tools. Elektrichestvo no.4:32-39 Ap '63. (MIRA 16:5) (Automatic control) (Assembly line methods)

IVENSKIY, Yu.N.; TULLER, A.G.; GEYLER, L.B., doktor tekhn. nauk, prof., retsenzent; KHARIZOMENOV, I.V., doktor tekhn. nauk, prof., red

[Electric control of machine tool lines] Elektroavtomatika stanochnykh linii. Moskva, Izd-vo "Mashinostroenie," 1964. 324 p. (MIRA 17:4)

IVENSKIY, Yu.N.; TULLER, A.G.; EL'PER, G.L.

Counting circuits in the control of machine tools and automatic lines. Stan. 1 instr. 34 no.11:7-10 N '63. (MIRA 16:12)

IVENSKIY, Yu.N., inzh.; POPLAVSKIY, V.S., inzh.

Monitoring and signaling system for automatic control of machine tools and lines. Mekh. i avtom. proizv. 19 no.7:39-43 J1 '65. (MIRA 18:9)

IVENSKIY, Yu.N., inzh.; LEYMAN, A.A., inzh.; GOTOVSKIY, A.S., inzh.

Calculation and design of generator-type contactless track switches. Elektrotekhnika 36 no.4:20-23 Ap '65.

(MIRA 18:5)

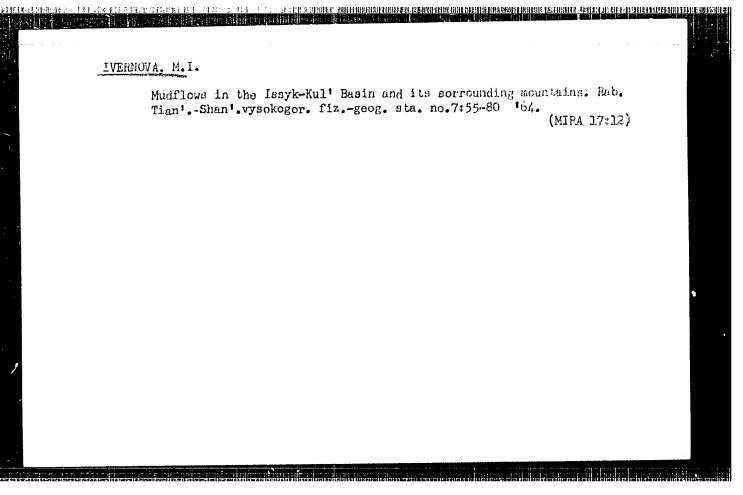
Ivenson, V.I.

Laws governing deformations.

Title: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963).

Source: Atomnaya energiya, v. 15, no. 3, 1963, 266-267

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TYSECTOVA, M.I., AVSTK, G.A., CLASSYCKAYA, M.A., CALETSKAYA, E.S., RECESCRIPTOCAL chart to scale of 1: 7,000,000"

Inst. Geography, A3 USER Recents ONEM p. 109, 1914.

IVERONOVA, M. I.

"The Arrangement of Works on the Study of Drift and Sedimentation, in the Tien-Enan Station of the Inst. of Geography, AS USSR," Problemy Fizicheskoy Geofrafii (Problems of Physical Geography), Vol. 16, Symposium, Moscow, 1951.

U-1483, 25 Sept 51

IVERCHĆVA, M. I.

Moraines - Tien Shan

Processes of the formation of recent moraines in Tien Shan. Trudy Inst. geog. AN SSSR no. 49, 1952

Tien-shan Physico Geographical Station, Inst. Geog. AS USSR

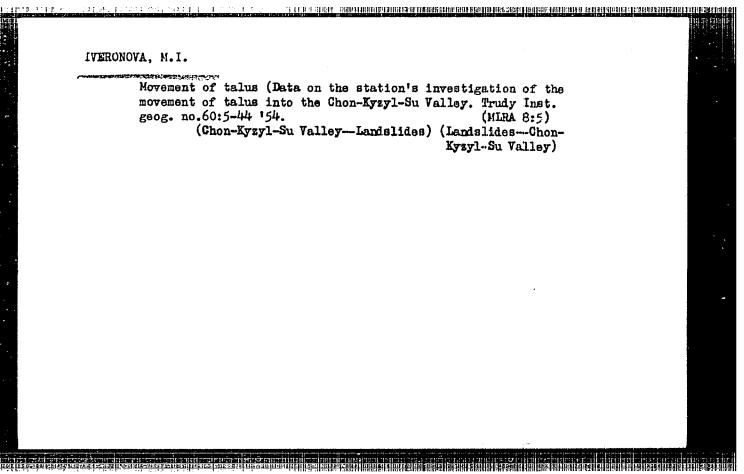
9. Monthly List of Russian Accessions, Library of Congress, lioveraber 1955, Uncl.

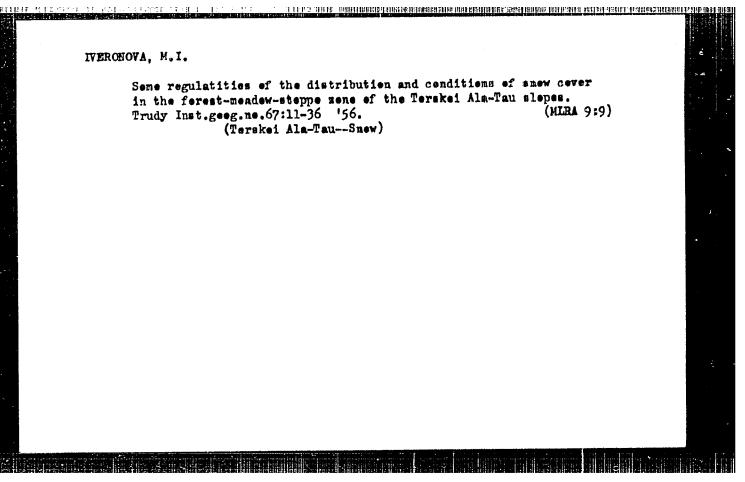
SHUL'TS, V.L. [author]; KUNIN, V.N.; IVERONOVA, M.I. [reviewers].

"Helting of anowflakes (exemplified in the Bol'shoy Chimgan region)." V.L.
Shul'ts. Reviewed by M.I. Iveronova and V.N. Kunin. Isv. AN SSSR Ser. geog. no.
4:106-108 Jl-Ag '5).

(Bol'shoy Chimgan region--Snow) (Snow--Bol'shoy Chimgan region)

(KIMA 6.8)





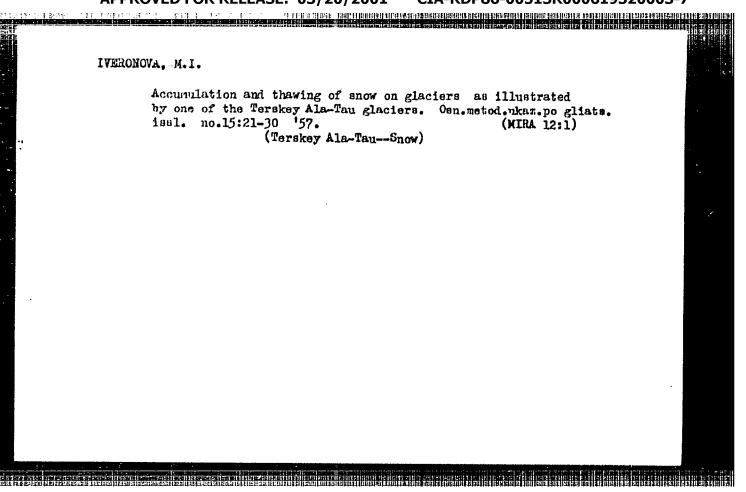
IVEROHOVA, M.I.; AVSYUK, G.A., prof., otvetstvennyy red.; PAVLOVA, Ye.P., red.

[Observations on modern exogeneous geomorphologic processes in a glacial zone] Rabliudeniia nad sovremennymi ekzogennymi geomorfologicheskimi protessesami v lednikovi zone, Moskva, 1957.

p.25. (Osnrvnye metodicheskie ukazaniia po gliatsiologicheskim Isaledovaniiam, no.12)

(Glaciers)

(Glaciers)



4. THE STATE OF TH

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10-58-2-1/30

AUTHORS:

"Avsyuk, G.A., Galitsov, A.P., Iveronova, M.I., Meshcheryakov,

TITLE:

At the XIth General Assembly in Toronto of the International Union of Geodesy and Geophysics (NUGG)(Na XI general noy assambleye mezhdunarodnogo soyuza geodezii i geofiziki (IUGG) v Toronto)

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 2, pp 3-8 (USSR)

ABSTRACT:

The XIth General Assembly of the International Union of Geodesy and Geophysics convened in Toronto from 3 to 14 September 1957. The USSR was represented by a delegation consisting of 54 scientists headed by Academician I.P. Bardin. The Soviet geographers G.A. Avsyuk, A.P. Galitsov, M.I. Iveronova and Yu.A. Meshcheryakov participated for the first time in a mesting of the Union. The conference was divided into various sections dealing with special fields. The conference heard the following Soviet reports: The Geodesists M.S. Molodenskiy, A.A. Izotov, Yu.D. Bulanzhe and M.I. Sinyagina on the achievements of Soviet science in the geodesy; V.V. Belousov. V.A. Magnitskiy, Ys.A. Lyubimova, V.I. Keylis-Borok and Yu.V. Reznichenko on seismological problems and questions concerning the physical structure of the Earth's deposits; G.A. Avsyuk on glacial research work

Card 1/3

10-58-2-1/30

At the XIth General Assembly in Toronto of the International Union of Geodesy and Geophysics (IUGG)

carried out in the USSR; A.M. Obukhov and A.S. Monin on metereological questions, especially diffusion and convection. Special attention was paid to the reports of the Soviet scientists M.I. Sinyaginaya and Yu.A. Meshcheryakov on the study of present movements of the Earth crust in the European part of the USSR. M.I. Budyko dealt with the distribution of the components of the thermal balance of the Earth's surface. This report met with especially great interest since only the USSR has succeeded in preparing monthly charts on the components of the thermal balance all over the world, and what is even more important, in sclving the problem of determining the evaporation taking place on the surface of dry land. Ye.P. Tolstik explorer of polar regions reported on Soviet research in the Arctic and Antarctic Zones within the International Geophysical Year. Due to the Soviet achievements in all these fields of science V.V. Belcusor, Corresponding Member of the AS, USSR was elected Vice-President of the

Card 2/3

10-58-2-1/30

At the XIth General Assembly in Toronto of the Esternational Union of Geodesy and Geophysics: (IUGG)

of the International Union of Geodesy and Geoghysics.

1. Geodesy and Geophysics-Conference

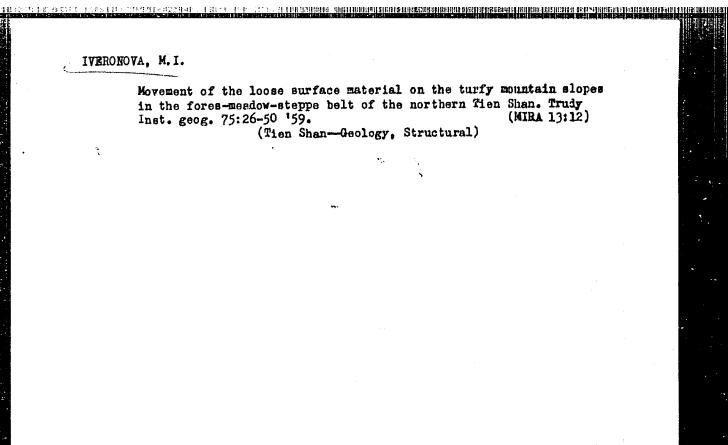
Card $\frac{3}{3}$

IVERONOVA, M.I.

Certain observation results on the distribution of snow cover in the Tien Shan Mountains; Terksei Ala-Tau Range, Chung-Ksyl-Su River basin. Trudy Toil. NIGMI no.3:25-30 58. (MIBA 11:10)

1. Institut geografii AN SSSR.
(Tien Shan--Snow)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320003-7"



SOV/10-59-3-27/32

AUTHORS:

Geller, S.Yu., Avsyuk, G.A., Iveronove, M.I. Neysheadt, M. I., Precbrazhenskiy, V.S., Rantsman, Ye.Ya., Sobolev, L.N.,

Rozin, M.S.

TITLE:

Book Reviews

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959,

Nr 3, pp 142-148 (USSR)

ABSTRACT:

Five new books are reviewed with a short description of each.

Card 1/1

IVERONOVA, M.I.

Surface runoff of rain and snow waters on the mountain slopes of the Terskey Ala-Tau. Izv.AN SSSR.Ser.geog. no.4:93-98 J1-Ag *60. (MIRA 13:7)

1. Institut geografii AN SSSR.
(Chong-Kyzylsu Valley (Terskey Ala-Tau)--Runoff

S/188/60/000/004/017/018/XX B006/B067

AUTHORS:

Grayevskaya, Ya. I., Iveronova, V. I., Tarasova, V. P.

TITLE:

The Dependence of the Characteristic Temperature Determined by X-Ray Analysis on the Tin Concentration in Solid Cu-Sn

Solutions

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya 3, fizika, astronomiya, 1960, No. 4, pp. 52 - 58

TEXT: The authors report on measurements of the characteristic temperature θ_{p} in Cu-Sn alloys within a wide concentration range. These alloys were chosen because their modulus of elasticity AE varies considerably with concentration ($\Delta E/\Delta C = 500 \text{ kg/mm}^2 \text{ per at% Sn}$). The characteristic temperatures were determined by X-ray analysis from the intensity ratios of the CuK(133) line at room temperature and at -1960c. For these measurements the authors chose copper-tin alloys in the α -phase with 2.35 at% tin (2 samples), 4.73 at% (2 samples), and 7.1 at% Sn (3 samples). The samples were produced from electrolytic copper and high-Card 1/3

The Dependence of the Characteristic S/188/6C/000/004/017/018/XX Temperature Determined by X-Ray Analysis on B006/B067 the Tin Concentration in Solid Cu-Sn Solutions

purity tin, and were annealed for 24 - 48 hours at about 50° C. The degree of homogeneity was determined from the distinctness of the (133-024) doublet of X-ray powder patterns. A Geiger counter was used for the measurements. A curved quartz crystal served as a monochromator. The intensity of the monochromatic beam was checked by a monitor counter. Fig. 1 illustrates the concentration dependence of θ_p . With increasing tin concentration, θ_p rapidly decreases. The same holds for the quantity $\frac{2}{p}$ which is proportional to the modulus of elasticity of the binding forces of the atoms (Fig. 2). θ_p and E are connected by the relation $\theta = \frac{h\sqrt{3}}{k} \left(\frac{3N}{4\pi}\right)^{1/3} \frac{E^{1/2}}{\sqrt{1/3} e^{1/2}(\sigma)}$ (h - Planck's constant, k - Boltzmann constant, N - Avogadro constant, M - atomic weight, ρ_p density, ρ_p function of the Poisson ratio). At low tin concentrations, also the relation $\theta = K\sqrt{E}$ may be used, which leads to $\frac{\Delta\theta_p}{\Delta C\theta_p} = \frac{1}{2} \frac{\Delta E}{\Lambda CE}$. 2.0.10-2 or Card 2/3

IVERONOVA, M.I., otv. red.; BIRINA, A.V., red. izd-va; VOLKOVA, V.G., tekhn. red.

[Role of the snow cover in natural processes; on G.D.Rikhter's 60th birthday] Rol' snezhnogo pokrova v prirodnykh protsessakh; k 60-letiiu so dnia rozhdeniia G.D.Rikhtera, Moskva, Izd-vo Akad. nauk SSSR, 1961. 270 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut geografii. (Snow) (Rikhter, Gavrill Dmitrievich, 1899-)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320003-7"

5/169/62/000/007/122/149 D228/D307

AUTHOR:

Iveronova, M. I.

TITLE:

Question of evaporation from the snow cover on the

USSR's territory

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 63, abstract 7V370 (Rol' snezhn. pokrova v prirodn. protsessakh, M., AN SSSR, 1961, 36-53)

TEXT: It is shown that the empirical formula E = (0.0075 + 0.0041) U_{1000}) $(1_n - 1_{200})$ allows the values of winter evaporation from snow to be calculated from the data of meteorologic network observations with a precision sufficient for determining its role in the water balance of a given territory. In this formula E is the magnitude of evaporation from snow in mm/hr; ln is the maximum watervapor tension in mb, determined from the snow surface's temperature; 1200 is the air's absolute humidity in mb at a level 2 m from

Card 1/5

Question of evaporation ...

S/169/62/000/007/122/149 D228/D307

the ground surface; and U_{1000} is the wind velocity in m/sec at a level of 10 m (at the wind vane height). These calculations, however, have yet to be done; they are laborious and require much time. The author recommends that the question of zoning a territory according to the value of evaporation from the snow cover should be approached as follows. Areas should be distinguished where the total magnitude of evaporation in the winter season comprises a value that is in the range of the accuracy of accounting for the maximum water reserves, which have accumulated in the snow cover, and hence merits no special attention. Then areas should be distinguished in which all components of the water balance and the winter evaporation in particular have to be strictly taken into account. Having assumed that the possible average for winter evaporation is 25 mm, the author demonstrates that its role in the water balance will have the least significance for those of the Soviet Union's territories, which are characterized by maximum water reserves of about 150 mm and more in the snow cover or by winters with much snow, having a maximum mean 10-day snow-cover depth dard 2/5

Question of evaporation ...

S/169/62/000/007/122/149 D228/D307

of more than 50 cm. In this case the overall magnitude of evaporation from the snow surface will lie in a range in which the snow cover's water reserve can be accurately calculated from snow surveys. The climatic zoning of the USSR carried out by A. A. Grigor'yev and W. I. Budyko was used to zone the USSR according to the specific value of evaporation in the water balance of its separate territories. The author also enlisted G. D. Rikhter's data on the zoning and the characteristic of the snow cover regime on the USSR's territory. 6 areas were distinguished on the accompanying scheme. Area I includes territory with an unstable snow cover; in the water balance the role of evaporation from the snow cover's surface is small. Territories where the winter has much snow belong to Area II. Here the role of evaporation is slight, too, since its overall winter value amounts to less than 20% of the snow cover's water reserves and thus lies in the range in which these can be accurately calculated. Territories having winters with much snow and excessively wet climates, belong to Area III. Here the strict calculation of relatively small expenditures of the water ~ balance's items can be of no great significance. Area IV includes Card 3/5

Question of evaporation ...

S/169/62/000/007/122/149 D228/D307

THE TRANSPORT OF THE PRODUCT OF THE

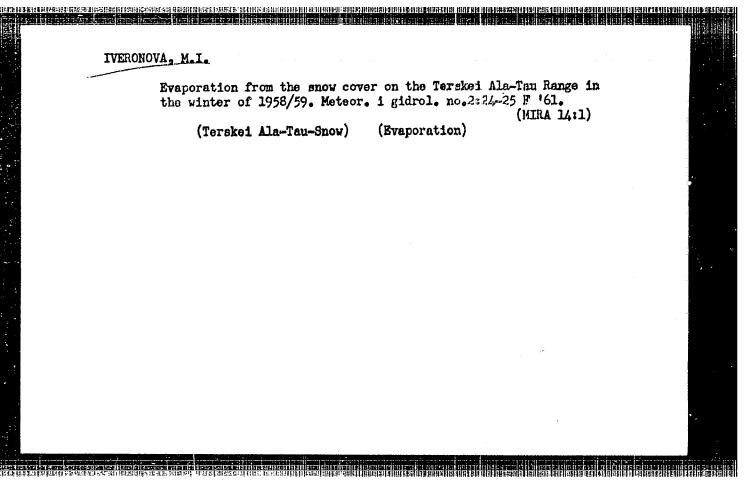
territories with little snow, though they are located in the zone of sufficiently wet climate. Territories situated in the dry climatic zone, belong to Area V; in them the role of winter evaporation is small. The author reckons that evaporation from the snow cover is highly significant in Area IV and V, and that it has to be considered in each kind of calculation for the water economy and the hydrology. Mountain regions belong to Area VI. Here the loss of snow in evaporation is significant only for mountain regions with little snow (Armyanskoye Highlands, the east part of the Glavnyy Kavkazskiy Range, E. Tyan'-Shan', E. Pamirs). The estimation of the magnitude of evaporation from the snow cover acquires special interest in the period of thaw, since this quantity is usually not taken into account from the moment of determining the maximum water reserves up to the snow cover's disappearance. It is supposed that the type of spring above all determines whether the process of evaporation from snow, or the process of condensation on the surface, predominates in the perio; of thaw. Evaporation should prevail throughout springs of the radistion type. Conditions for the development of this process are unit vorable when there are Card 4/5

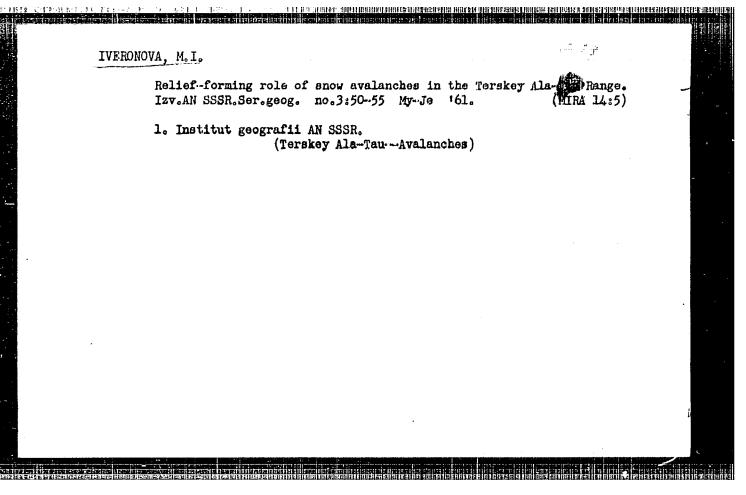
Question of evaporation ...

S/169/62/000/007/122/149 D228/D307

springs of the advective type. In most cases the maximum magnitude of evaporation during the thaw varies from 0.4 to 1.0 mm/day on the USSR's territory. The average magnitude of evaporation in the period of thaw varies from 0.10 to 1.08 mm/day, comprising on an average 0.4 mm/day. If the duration of the snow cover's period of thaw is taken as 20 - 25 days, the magnitude of evaporation for this period will comprise 8 - 10 mm. 38 references. / Abstracter's note: Complete translation. /

Card 5/5





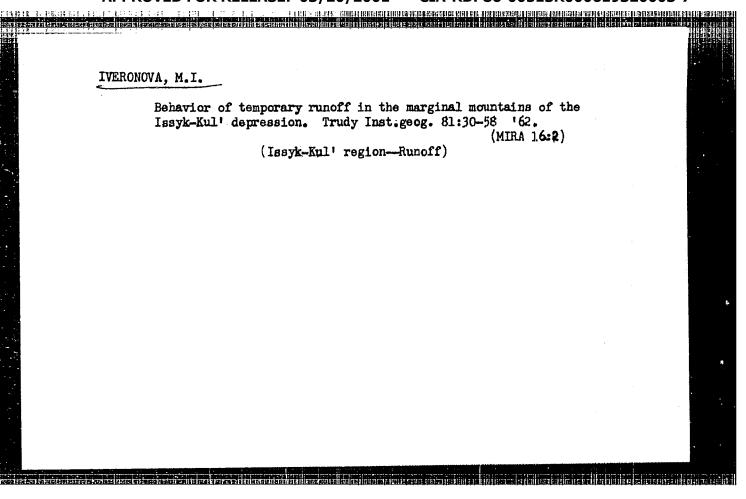
IV	ERONOVA, M.I.		
	Snow evaporators. Trudy Tbil.NIGM	I no.9:185-190	'61. (MIRA 15:3)
	1. Institut geografii AN SSSR. (Snow) (Eva	poration)	
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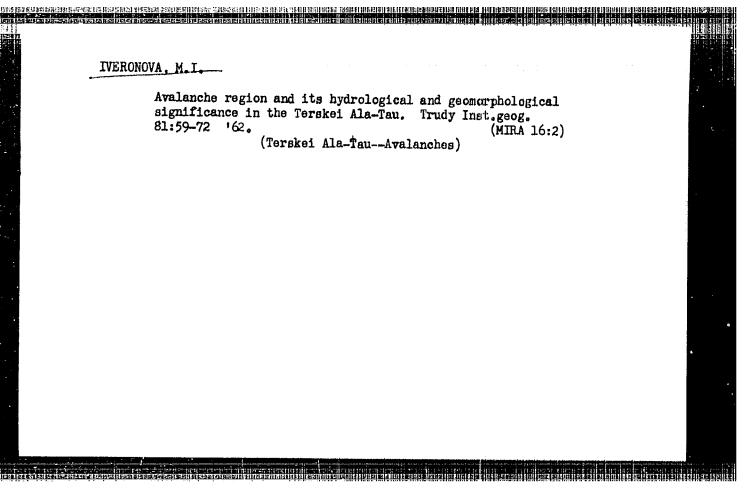
IVERONOVA, M.I.

Seismic mudflows of northern Tien Shan. Izv. AN SSSR. Ser. geog.
no.4462-64, J1-Ag '62. (MIRA 16:5)

1. Institut geografii AN SSSR.
(Tien Shan-Landslides) (Tien Shan-Earthquakes)

I	VERONOVA, M.I.	
	Mudflows in the Chong-Aksu Valley. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 4 no.4:79-84 62. (MIRA 16:4) (Chong-Aksu Valley-Runoff)	





Snow avalanches as relief producers. Priroda 51 nc.7:109-111 J1 102. (MIRA 15:9)

1. Institut geografii AN SSSR, Moskva. (Soviet Central Asia—Avalanches)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320003-7"

IVERONOVA, M.I.

Recent activity of temporary streams in the high mountains of the Issyk-Kul' region; results of stationary research. Izv. All SSSR. Ser.geog. no.1:67-72 Ja-F '63. (MIRA 16:2)

1. Institut geografii AN SSSR.
(Issyk-Kul* region-Rumoff)

IVERONOVA, M.I.

Characteristics of slope denudation in the northern Tien-Shan.

Izv. AN SSSR. Ser. geog. no.3:71-76 My-Je '63. (MIRA 16:8)

1. Institut geografii AN SSSR. (Terskei Ala-Tau--Erosion)

SHCHEGLOVA, O. P., kand. fiz.-matem. nauk; LUT, B. F.; MECHITOV, I. I., kand. tekhn. nauk (Tbilisi); IVERONOVA, I. M., kand. geograf. nauk (Moskva); IOGANSON, V. Ye. (Moskva); LARIONOV, P. M. (Uzhgorod)

Mud torrents. Prioroda 52 no.1:90-96 '63. (MIRA 16:1)

1. Tashkentskiy gosudarstvennyy universitet im. V. I. Lenins for Shcheglova). 2. Baykal'skaya limnologicheskaya stantsiya, poselok Listvenichnoye, Irkutskaya obl. (for Lut).

(Runoff) (Erosion)

IVERONOVA, M.I.

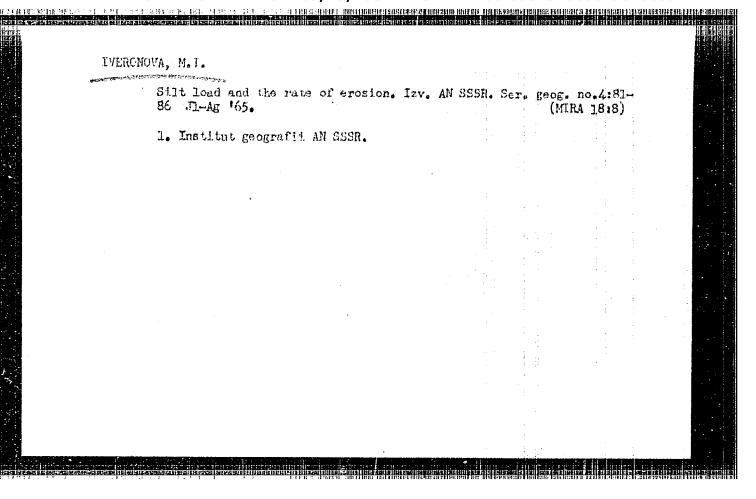
Slow movement of soil masses on turf-covered slopes. Izv. AN SSSR. Ser, geog. no.1:62-73 Ja-F '64. (MIRA 17:3)

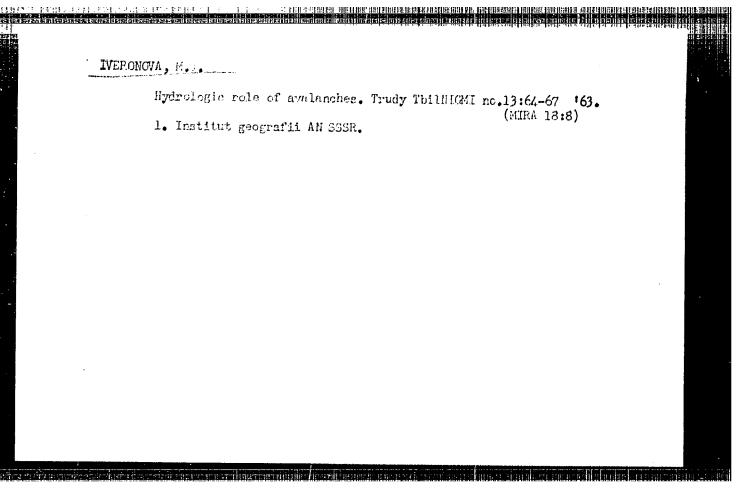
1. Institut geografii AN SSSR.

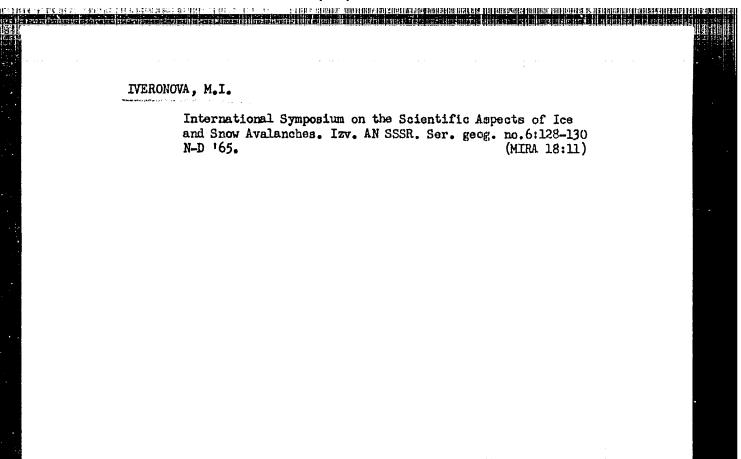
TVERONOVA, M. I.

"The hydrological role of snow avalanches."

report to be presented at Intl Symp on Scientific Aspects of Snow and Ice Avalanches, Davos, Switzerland, 5 Apr.ll Apr 65.





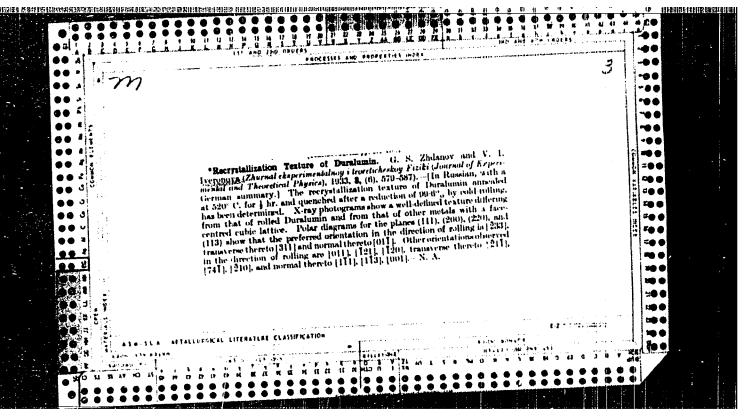


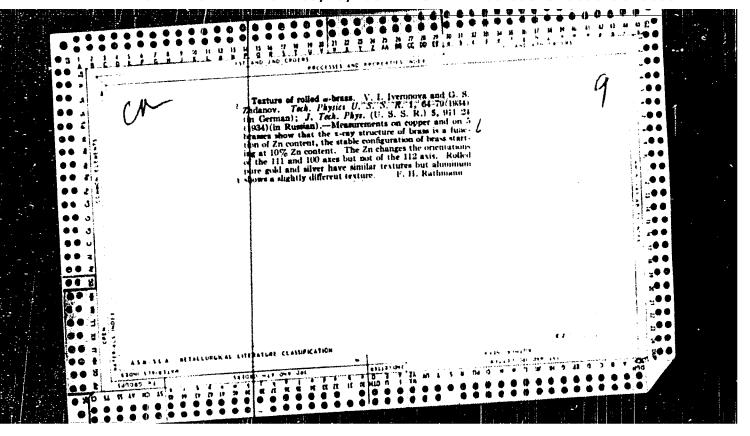
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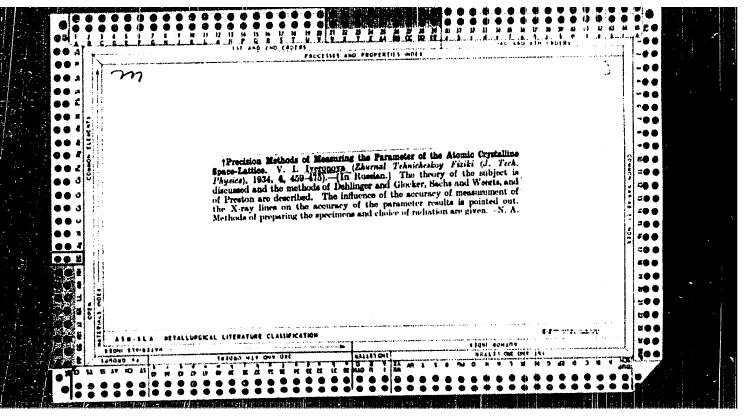
Fizicheskiy praktikum Morcow, 1951 614 p.

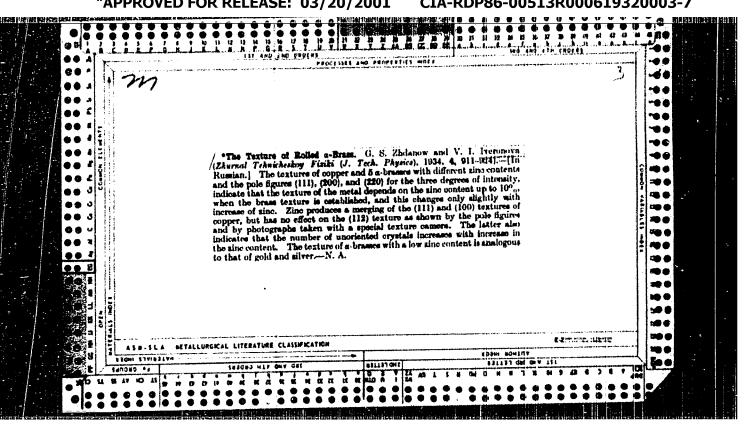
Physics textbook for government universities and pedagog cal institutes dealing with mechanics, molecular physics, electricit, option, etc; published as a Govt. Medition of Technical-theoretical Leterature.

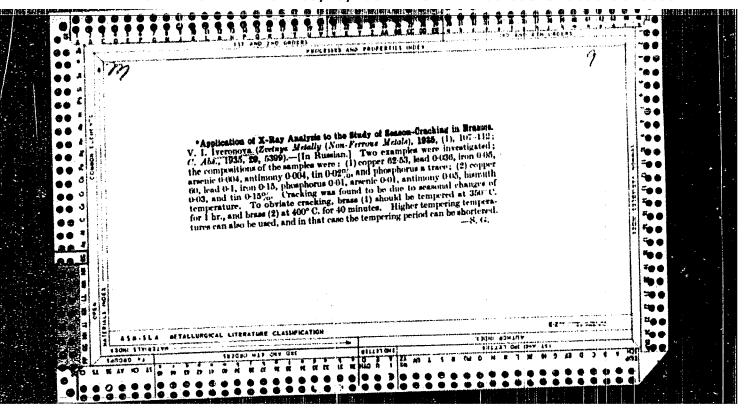
- 1. Russia--Physics
- 2. Russia--Electrical Engineering
- 3. Russia--Optics
- i. Practical Physics
- ii. litle

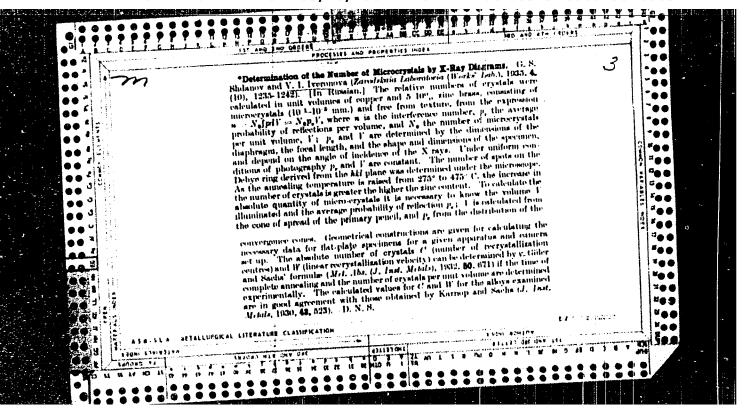


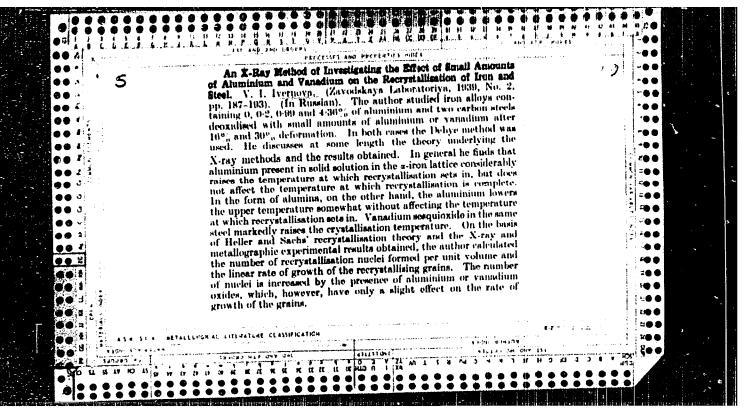


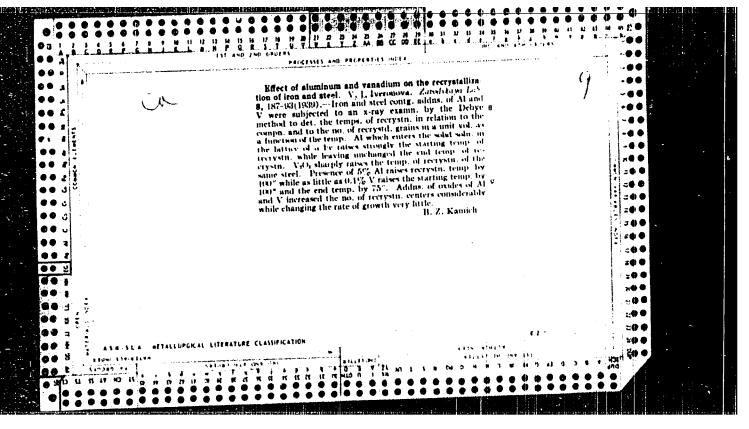


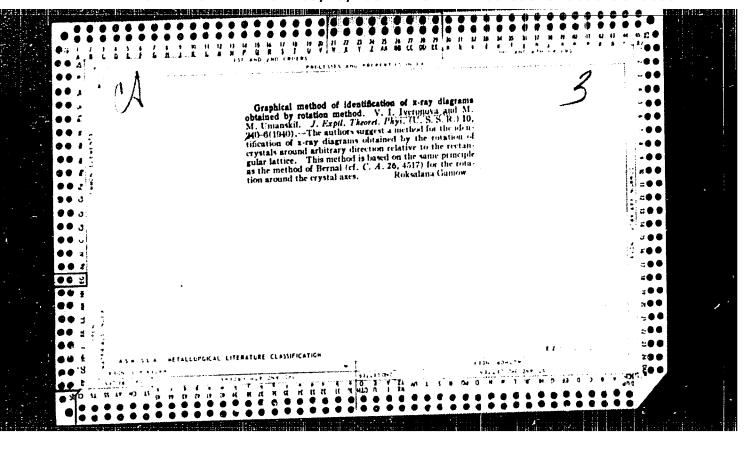


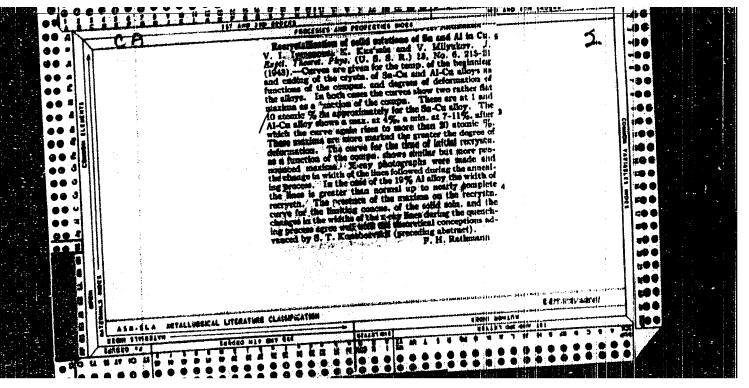












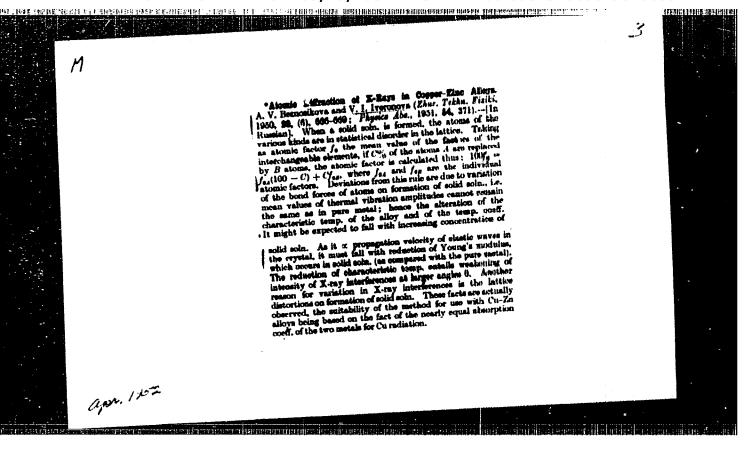
IVERONOVA, V. I. Dr. Physicomath Sci.

Dissertation: "Rest and Recrystallization of Metal Solid Solutions." Moscow Order of Lenin State U., imeni M. V. Lomonosov, 5 Mar 47.

S0: Vechernyaya Moskva, Mar, 1947 (Project #17836)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320003-7"

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	li•	Physics and Mathematics	
	7•	Course in Physics, (Vol 1, Moscow-Leningrad, State Technical Fress, 1947-1948) Reviewed by V. I. Iveronova and I. A. Yakovlev, Sov. Kniga, No. 11, 1949.	
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		. U-3081, 16 Jan. 1953. Unclassified.	
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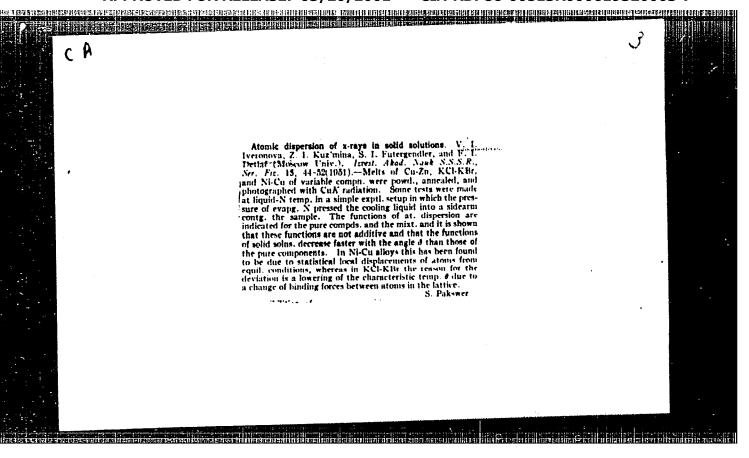


Laboratory work in physics; a handbook Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1951. 614 p. (55-43185)

QC37.I9 1951

- 1. Physics Laboratory manuals
- I. Beliankin, A. G.

IVERONOVA, V. 1. ed.



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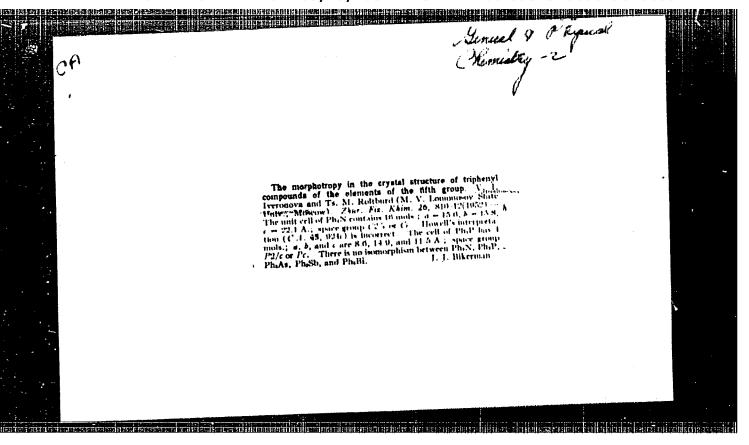
CIA-RDP86-00513R000619320003-7 "APPROVED FOR RELEASE: 03/20/2001

IVERONOVA, V.I., ROYTEURD, TS.M.

Morphotropy in crystalline structure of triphenyl compounds of elements of the 5th group. Zhur.fiz.khim., 16, No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

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IVERONOVA, V.I., professor, redaktor; BELYANKIN, A.G.; CHETVERIKOVA, Ye.S.;

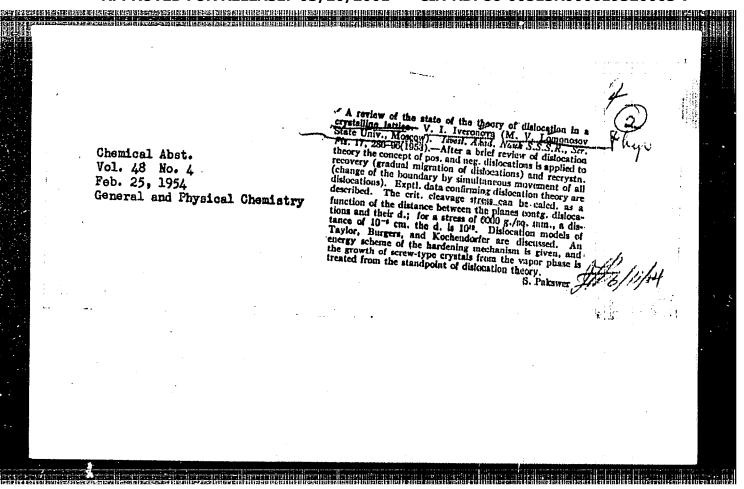
[Practical work in physics; manual] Fizicheskii praktikum; rukovodstvo k prakticheskim zaniatiiam po fizike. Izd.2.,ispr. Moskva,
Gos. izd-vo tekhniko-teoret. lit-ry, 1953. 634 p. (MLRA 7:3)
(Physics--Laboratory manuals)

IVERONOVA, V. I.; KALASHNIKOV, S. G.; YAKOVLEY, I. A.

Firsh, S. Ye.

Course in general physics. Vols. 1-3. E. S. Frish. A. V. Timoreva. Reviewed by V. I. Iveronova, S. G. Kalashnikov, I. A. Yakovlev. Sov. kniga No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.



USSR/Selid State Physics - Phase Transformations in Selids, E-5

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34735

Author: Iveronova, V. I.

Institution: None

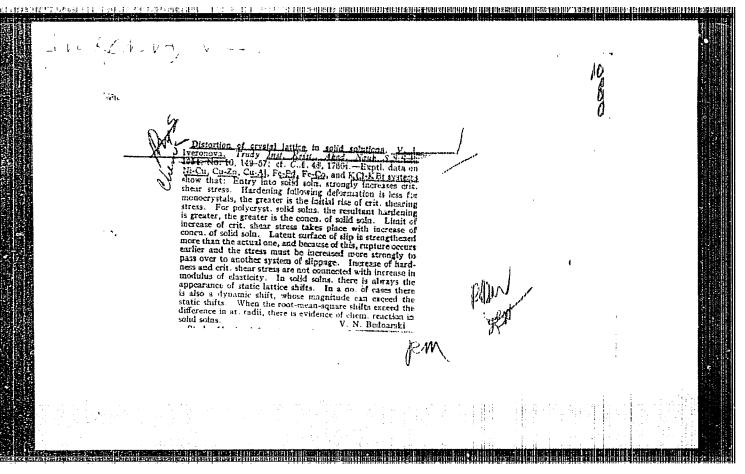
Title: Distortion in the Crystalline Lattice in Solid Solutions

Original Periodical: Tr. In-ta kristallogr. AN SSSR, 1954, No 10, 149-157

Abstract: See Referat Zhur - Khim, 1956, 53720

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IVERONOVA, V. 1.

"Deformation of Crystalline Lattices in Solid Solutions," by V. I. Iveronova.

pp. 339-347.

So: Works of the Inst. of Crystallography, Issue #10, (Report submitted in the 3rd International Congress of Crystallography; published by the Aced Sci USSR, Moscow, 1954)

VERONOVA, V. I.

USSR/Engineering - Metallurgy

Pub. 22 - 14/40Card 1/1

: Iveronova, V. I., and Katsnel'son, A. A. Authors

: Distortions of crystal lattices of cobalt and palladium in solid solutions Title

of iron.

Periodical: Dok. AN SSSR 99/3, 391-394, Nov 21, 1954

: Experimental studies of the causes of distortions in prystal lattices of Abstract

cobalt and polladium, dissolved in iron (solid solutions), are described. Experimentally obtained data were checked and compared with the theoretical values of calculated coefficients of distortions (dynamical and statical). Results of the studies are summarized and presented in tables. Seven re-

ferences; 6-USSR and 1-Foreign (1935-1952). Graphs; tables.

Institution: Moscow State University M. V. Lomonosov

Presented by: Academician G. V. Kurdyumov, April 28, 1954.

IVERONOra, KI USSR/ Chemistry - Silk fibers Pub. 22 - 28/63 Card 1/1 Andreyeva, N. S., and Iveronova, V. I. Authora Title ! The structure of silk fibroin Periodical : Dok. AN SSSR 99/6, 991-993, Dec 21, 1954 Experiments were conducted with fibers of Bombys mori milk fibroin treated Abstract in a buffer solution of NaHCO3 + Na CO3 at 9.9 pH to determine the structure of the fibroin. Photos were made of the non-momentum tized and nonochromatized copper emission obtained during the reflection of x-rays from a curved aluminum monocrystal placed in an RKU-66 type camera. The results obtained are listed. Five references: 3-USA; 1-USSR and 1-German (1943-1954). Tables; illustrations. The M. V. Lomonosov State University, Moscow Institution: Presented by: Academician N. V. Byelov, May 11, 1954

USSR/Physics - Metals, Radiography

FD-2835

Card 1/1

Pub. 153-18/30

Author

: Iveronova, V. I. and Katselson, A. A.

Title

: Problem of Mosaic of Crystals in Polycrystalline Metals

Periodical

: Zhur. Tekh. Fiz, 25, 696-699, 1955

Abstract

: Starting with a certain annealing temperature of plasticity deformed polycrystalline solid solutions, an intense growing of mosaic blocks occurs, leading to weakening of intensity of first lines of the radiogram. A method facilitating the separation of the extinction effect on variation of the ratio of line intensities allows determining the distortion of the crystalline lattice.

Six references, 3 foreign.

Institution

Submitted

: September 8, 1955

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Structures of the narates of care-garth elements. Struct

IVERMOUN, U. I.

USSR/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 167

Author: Ivernova, V. I., and Katsnel'son, A. A.

Institution: Academy of Sciences USSR

Title: Distortions in the Crystal Lattice of Solid Solutions of Cobalt and

Palladium in Iron

Original

Periodical: Dokl. AN SSSR, 1954, Vol 99, No 3, 391-394

Abstract: The distortions in the crystal lattices of Fe-Pd (4 at percent Pd)

and Fe-Co (5, 10, 20, 30, 35, and 50 at percent Co) alloys have been studied. The existence of distortions and their nature were investigated by the weakening of the atomic scattering function (f-curve) of the alloys indicated by comparing it with the values for the pure metals at various temperatures. The f-curve was calculated from Xray photographs obtained by the standard powder method with Fe-Ka and Co-Ka radiation. An increase was detected in the distortion in Fe-Co alloys when the Co concentration was increased up to 20%, after

Card 1/2

USSR/Chemistry - Physical chemistry
Card 1/1 Pub. 22 - 29/51

Authors : Andreyeva, N. S., and Iveronova, V. I.

LVERONOVA, V. L.

Title : The structural characteristics of fibrillar albumina

Periodical : Dok. AN SSER 101/1. 111-114, Mar 1. 1955

Abstract

The basic problems involved in the study of the structural characteristics of fibrillar albumina are analyzed. X-ray experimental data are presented showing that the fibers of certain fibrillar albumina have parallel oriented chain molecules the packing of which has a certain

parallel oriented chain molecules the packing of which has a certain specific nature. The presence of various interference types indicates that fibrillar albumine represent systems consisting of several phases.

Five references: 4 USSR and 1 USA (1936-1952). Illustrations.

Institution : The M. V. Lomentsov State University, Miscow

Presented by : Academic N. V. Byelov, September 21, 1954

AND THE RESIDENCE OF THE STATE OF THE STATE

IVERONOVA, V.I.

USSR/Chemistry - Physical chemistry

Card 1/2

Pub. 22 - 32/54

Authors

s Semenchenko, V. K.; Kristan, E.; and Iveronova, V. I. www.manialistalistalista

Title

: Effect of admixtures on the surface tension and recrystallization of Sn

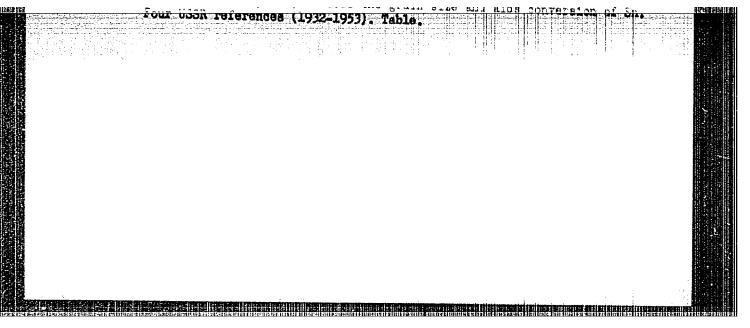
Periodical : Dok. AN SSSR 102/5, 973-975, Jun 11, 1955

Abstract

: Experiments were conducted to determine the effect of admixtures (active & inactive) on the surface tension and recrystallization of Sn. It was

Institution: The M. V. Lomonosov State University, Moscow

Presented by: Academician A. V. Shubnikov, January 26, 1955



IVEKUNOUN, " =

USSR/Laboratory Equipment - Instruments., Their Theory,

Construction and Application.

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 19763

Author : Ya.I. Grayevskaya, V.I. Iveronova, V.P. Tarasove.

Title : Specialized Installation for Determination of Intensity

of X-ray Reflections with Geiger's Counters.

Orig Pub : Kristallografiya, 1956, 1, No 4, 442-445

Abstract : The installation is assembled on the base of a standard

x-ray apparatus URS-55, parts of the optical bench OSK-1, conversion radio-schemes PS-64 with mechanical and Geiger's counters RM-4. The intensities of diffraction lines with reflection angles of 5 to 740 can be measured with the installation. There is no stabilization of the voltage and current. The intensity of the tube radiation

is checked with a separate counter.

Card 1/1

_ 4 -

IVERONOVA, V.I., prof.; SHVIDKOVSKIY, Ye.G., prof. otv.red.

[Program in general physics; for the Physics Faculty] Programs po obshchei fizike (dlia fizicheskogo fakul'teta). 1956. 7 p.

(MIRA 11:3)

1. Moskow.. Universitet.

(Physcis--Study and teaching)

IVERONOVA, V.I., prof.; GOLUBKOV, P.V., prof., red.; KONDILHNKO, I.I., dots., cod.; MARIANASHVILI, H.M., dots. red.; MARIANASHVILI, H.M., dots. red.

[Program in general physics for physics and physicomathematics faculties of state universities] Programma po boshchei fizike dlia fizicheskikh i fiziko-matematicheskikh fakul'tetov gosudarstvenzykh universitetov. [Kiev] Izd-vo Kievskogo gos. univ. Pt.1. [Hechanics. Molecular physics. Electricity and magnetiam. Optics] Hekhanika. Molekuliarnaia fizika. Elektrichestvo i magnetizm. Optika. 1956. 8 p. (MIRA 11:3)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya. (Physics--Study and teaching)

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ANTICKE COMPANY

USSR / Solid State Physics - Structural Crystallography

E-4

Abs Jour

: Ref Zhur - Fizika, No. 5, 1957 #11606.

Author

: Grayevskaya, Ya. I. Iveronova, V.I., Tarasova, V.P.

Inst

: Moscow University, USSR.

Title

: Specialized Setup for the Determination of the Intensities of X-ray Reflections with the Aid of Geiger Counters.

Orig Pub

: Kristallografiya, 1956, 1, No.4, 442 - 445.

Abstract

: Description of the operation of a simplified setup for the measurement of the integral intensities of X-ray diffraction reflections. The setup is assembled out of standard instruments: X-ray apparatus type URS-55, PS-64 electronic counting circuit, Geiger counters and mechanical counters. The high voltage and the plate currents are not stabilized. To fix the intensities of the primary X-ray beam, a Geiger

Card: 1/2

IVERØNOVA, V. I.

Moscow State University"The Distortion of Crystal Lattice in Solid Solutions" (Section 11-2) A PAPER SUBMITTED AT THE General Assembly and International Congress of Crystallography, 10-19 Jul 57, Montreal, Canada.

c-3,800,189

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320003-7"

ANDRETEVA, N.S.; IVERONOVA, V.I.

Characteristics of the I-ray diffraction patterns of oriented highmolecular substances [with summary in Anglish]. Biofizita 2 no.3;
281-293 '57.

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta
imeni M.V. Lomonosova (for Andreyeva). 2. Institut biofiziki Akademii
nauk SSSR, Moskva (for Iveronova)
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70-3-15/20

Iveronova, V.I., Zvyagin, A.P. and Katsnelson, A.A.

AUTHOR: The distortion of the crystal lattice in solid solutions. TITLE:

(Iskazheniya kristallicheskoy reshetki v tverdykh

rastvorakh)

"Kristallografiya" (Crystallography), 1957, PERIODICAL:

Vol.2, No.3, pp. 414 - 418 (U.S.S.R.)

ARSTRACT: The values of the mean square static displacement of atoms were calculated by means of the elastic model of solid solution. A comparison of the results of calculations with the experimentally measured values of $U_{\text{st.}}^2$ are given. The

values of Ust. determined experimentally agree in order of magnitude with the calculated values; however, the theoretically required proportionality in the difference of atomic radii is not observed. An analysis of the probable causes of this divergence is given. The most essential must be the comparison of the values of the mean square displacements with the short-range order, determined according to the intensity of the background of the X-ray pattern.

The dependence of the value of the mean square static displacements was studied in Cu-Sn, Fe-Co, Ni-Cr, Ni-Ti and Fe-C alloys. For low concentrations all the curves show a card 1/2

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70-3-15/20

The distortion of the crystal lattice in solid solution. (Cont.)

linear dependence of a on concentration, which agrees with the valculations carried out on the ground of the elastic model. A saturation of the value of the mean square static displacements is observed at high concentrations; for Ni-Fe alloys the outline a = f(c) was obtained, which does not coincide with the theory. It was shown that in this case the values of Ust determined from X-ray patterns, with Mo and Cu radiation do not show mutual agreement. The picture

observed is explained by the influence of primary extinction.
A curve of the dependence of the Debye temperature upon concentrations was deduced for Ni-Fe alloys. Using Cuzhu and NizFe alloys, the dependence of the Debye temperature upon the long-range order was shown. The Debye temperature of the ordered solid solution was found to be lower than that of the disordered one. There are 4 figures and 18 references, 13 of which are Slavic.

Moscow State University im. M.V. Lomonosov. ASSOCIATION:

(Moskovskiy Gosudarstvennyy Universitet im.

M.V. Lomonosova)

SUBMITTED: March 8, 1957. AVAILABLE:

Library of Congress

Card 2/2

IVERONOVA, V. I.

AUTHOR: Zvyagina A.P. and Iveronova, V.I.

70-5-7/31

.TTTE:

A Method of Determining the Amplitudes of the Thermal Vibrations of Atoms of Various Kinds in a Solid Solution (Metod opredeleniya amplitud teplovykh kolebaniy atomov raznogo sorta v tverdom rastvore)

PERIODICAL: Kristallografiya, 1957, Vol.2, No.5, pp. 613 - 617 (USSR) An X-ray method for calculating the temperature factors B_1 and B_2 (mean square displacements) for each of two kinds ABSTRACT:

of atoms has been developed and applied to an ordered solid solution, Cu3Au, and a 1.9% solution of W in Fe. The r.m.s. amplitudes were found to be 0.18 and 0.12 A for Cu and Au, respectively at 240 K and 0.11 and 0.05 A for Fe and W, respectively, at 2425 K.

If $n = \sin \theta / \lambda$ the atomic scattering factor for a solid solution can be expressed as:

solution can be expressed as:

 $f = (1 - c)f_1 \exp(-B_1 n) + cf_2 \exp(-B_2 n).$

c is the concentration of the second component. Any pair of experimentally measured intensities I(n) can be solved for B_1 and B_2 if the structure factors are calculable. The

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70-5-7/31

A Method of Determining the Amplitudes of the Thermal Vibrations
of Atoms of Various Kinds in a Solid Solution.

equations can be expressed in terms of one variable B1:

$$f'' = (1-c)f_1'' \exp(-B_1n'') + cf_2'' \left[f' - (1-c)f_1'' \exp(-B_1n') \right] / cf_2' \right]^{n''/n}$$

This expression is plotted out for $\operatorname{Cu}_X \operatorname{Au}$ for different pairs of n' and n". The $\operatorname{Cu}_3 \operatorname{Au}$ was only partly ordered so that the static distortion ($\alpha_{\text{st.}} = 0.66$) was eliminated by taking photographs at two different temperatures which gave B = 0.60. Introducing the parameter α , correction can be made for the different types of bonds to the solute atoms. The dependence of α on B_X , (r.m.s. amplitude of the solute atom) can be found by constructing the family of curves of f against B_X for different values of α . The observed dependence of f on $\sin \theta / \lambda$ enables the curve $\alpha(B_X)$ to be found.

There are 2 figures, 3 tables and 3 non-Slavic references.

ASSOCIATION: Moscow State University im. M. V. Lomonosov (Moskovcard 2/3 skly Gosudarstvennyy Enversitet im. M. V. Lomonosova)

